APRS goes to the Sydney Games

Darryl Smith, VK2TDS

Sydney 2000

Sydney 2000

GAMES OF THE XXVII OLYMPIAD JEUX DE LA XXVII[e] OLYMPIADE

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Sydney 2000

DARRYL SMITH

PRODUCTION
SOBO

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IBC **MPC**

OLYMPIC GAMES IDENTITY AND ACCREDITATION CARD

GAMES OF THE XXVII OLYMPIAD JEUX DE LA XXVII[e] OLYMPIADE

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SYDNEY OLYMPIC PARK PRECINCT

ATV
ALL TRAINING VENUES

Sydney 2000

AT
ATHLETICS COMPETITION VENUES
SITES DE COMP. D'ATHLETISME

4
NON RIGHTS HOLDING MEDIA AREAS
SECT. DIFF. NON DETENT. DROITS

CY
CYCLING COMPETITION VENUES
SITES DE COMP. DE CYCLISME

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RIGHTS HOLDING BROADCAST AREAS
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TRC
TRIATHLON COURSE

IBC
INTERNATIONAL BROADCAST CENTRE
CENTRE INTER. RADIODIFFUSION E

ADMIN & OPERATIONAL AREAS
SECTEUR OPERAT. & SECTEUR ADMI

MPC
MAIN PRESS CENTRE
CENTRE PRINCIPALE DE PRESSE

IBM. Kodak

CARTE D'IDENTITE ET D'ACCREDITATION OLYMPIQUE

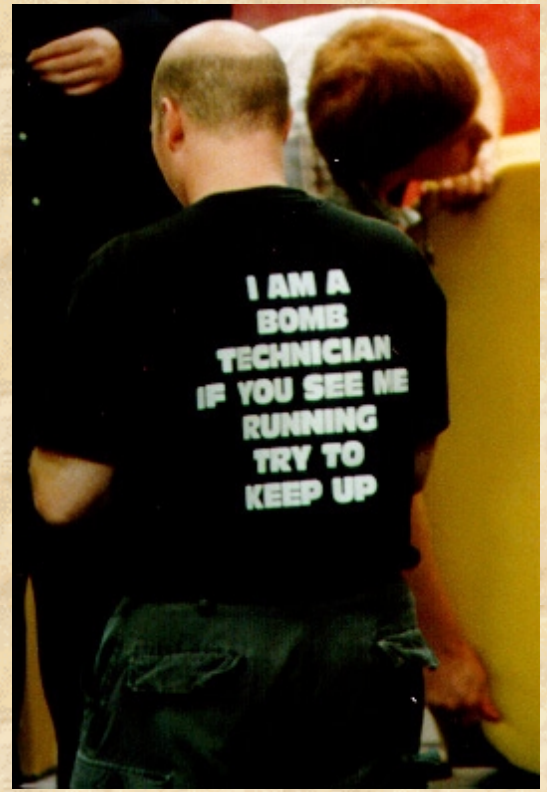
4 5

DARRYL SMITH

PRODUCTION
SOBO

Sydney 2000

This presentation describes the use of GPS in the 2000 Sydney Olympics. It is intended that this presentation be updated following The Games with actual photos.



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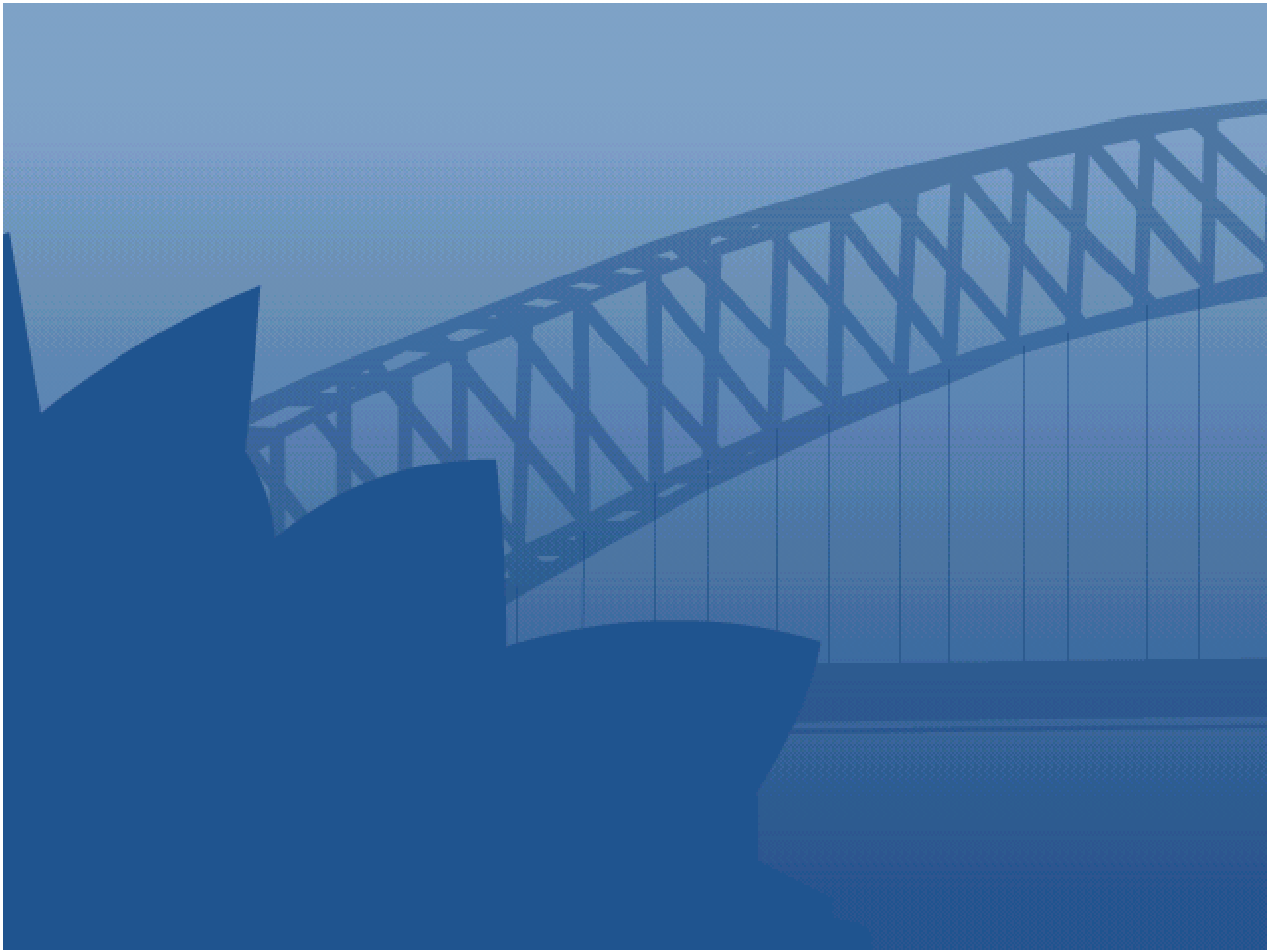
Olympic Torch Relay
Friday 15 September 2000 (Day 100)
km
N Narrabeen
Danora Heights
Oxford Falls
Collaroy
Frenchs Forest
Dee Why
Forestville
North Curl Curl
Curl Curl
Harbord
Roseville Chase
Roseville
Manly
Chatswood
Artarmon
Greenwich
North Sydney
Mosman
Hornsbuth Bay
Sydney Olympic Park Opening Ceremony
Pyrmont
Start from Sydney Town Hall
Ultimo
Start
5:14am Sydney
Route
Sydney - Hornsbuth Bay - Olympic Park
kms for day
62.6 + boat trips
Today's Action
>Torchbearer highlights
>Street summary
>Lunch celebration
>Evening celebration
See Yesterday's Route

The journey begins.
Mt. Isa
Alice Springs
Please Click Here
Uluru-Kata Tjuta National Park
Sydney

The Torch Relay



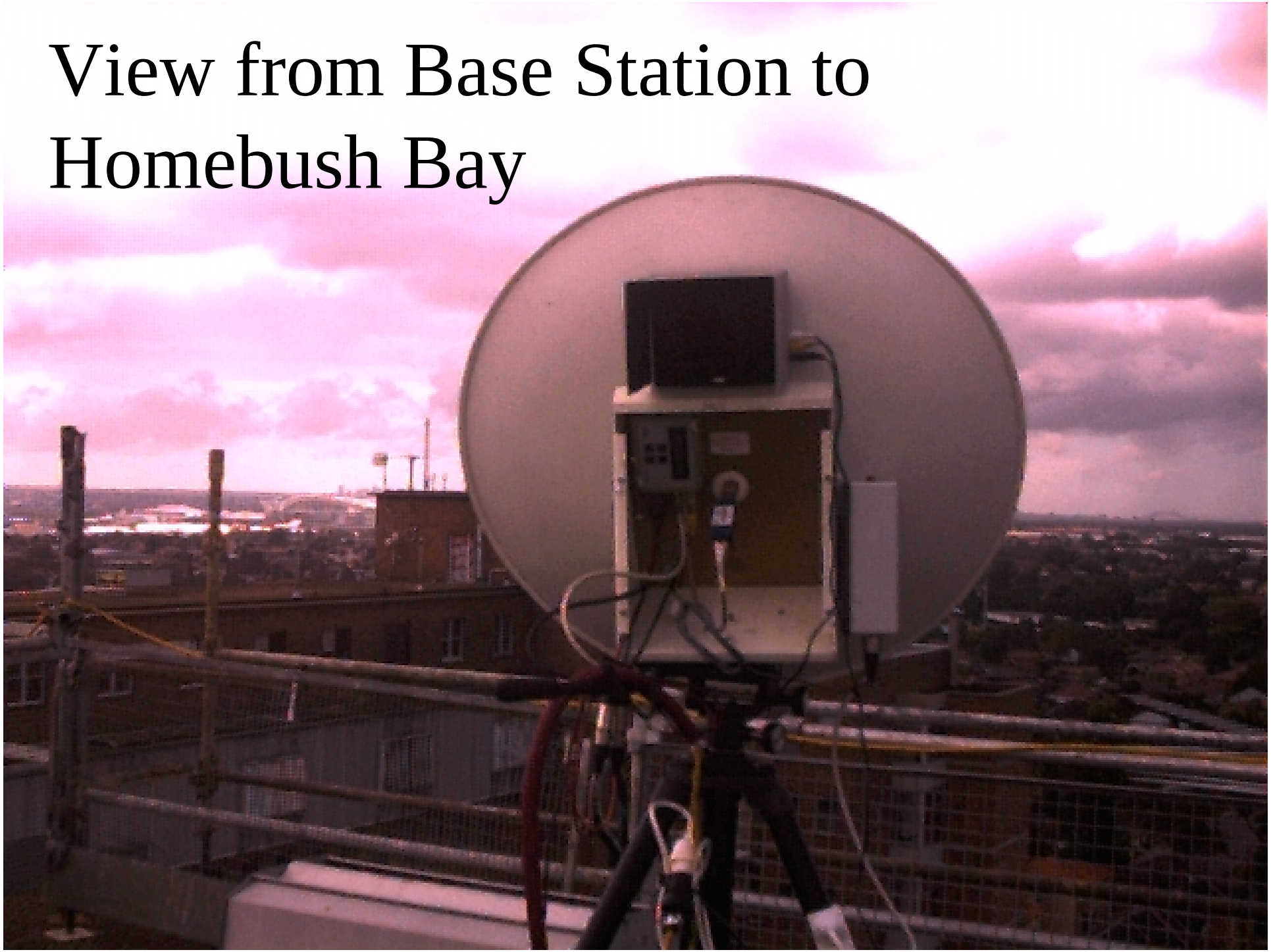
Sydney 2000

- SOCOG is the Sydney Organising Committee for the Olympic Games. They have created SOBO - the Sydney Olympic Broadcasting Organisation.
- SOBO has contracted many organisations to provide specialist services. Winemiller Inc of Carslise, Pa are providing RF based video coverage of The Games.

RF Video

- ✓ Winemiller, Inc. will be providing all the RF Video links for the games.
- ✓ These links connect to Fibre Optic cable at various base stations for transfer to the International Broadcast Center (IBC)
- ✓ The links will come from Helicopters, Fixed Wing Planes and road based vehicles.

View from Base Station to Homebush Bay



Race Lead Vehicle - During the Marathon Test Event At the SOBO warehouse

Sydney Marathon Test

- ✓ The MARATHON test was relatively successful.
- ✓ We had GPS failures due to RF interference (3f+20 MHz)

This is a RACK of SDI (Digital Video) links to the fibre transit room at the International Broadcast Centre (IBC)

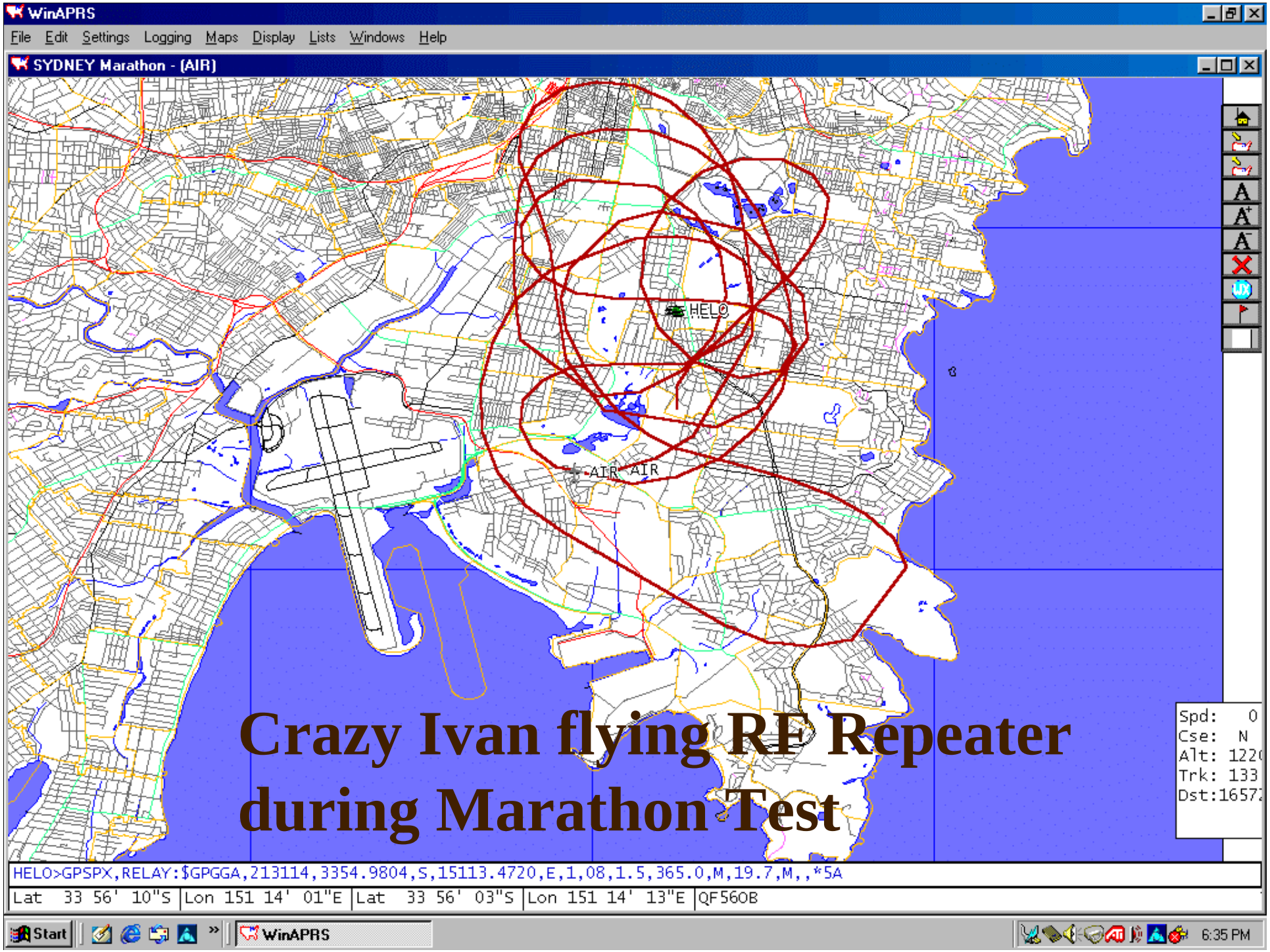
Viewing Room of Test Marathon

- Notice the map in the center of the screen - That is my work

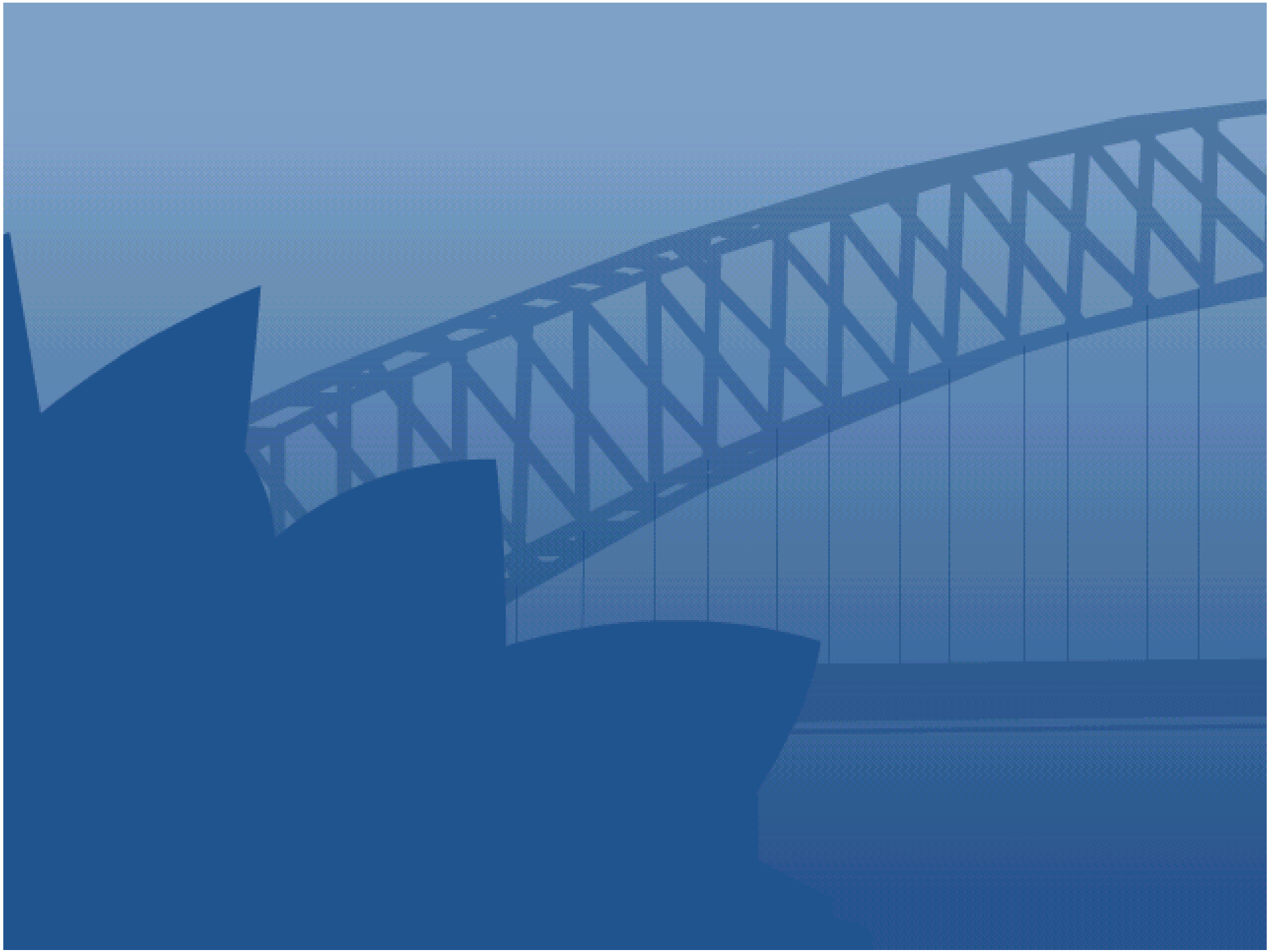
Marathon Test Event

- ✓Three Base Stations sites
- ✓1 Fixed Wing and 1 Helicopter
- ✓1 Camera Truck with 2 uplinks
- ✓9 US Employees & 1 Australian
- ✓27 Boxes flown in from the USA

All so that most of the technical problems could be ironed out before the games. After all lack of video or sound for the marathon would be a huge embarrassment to Australia

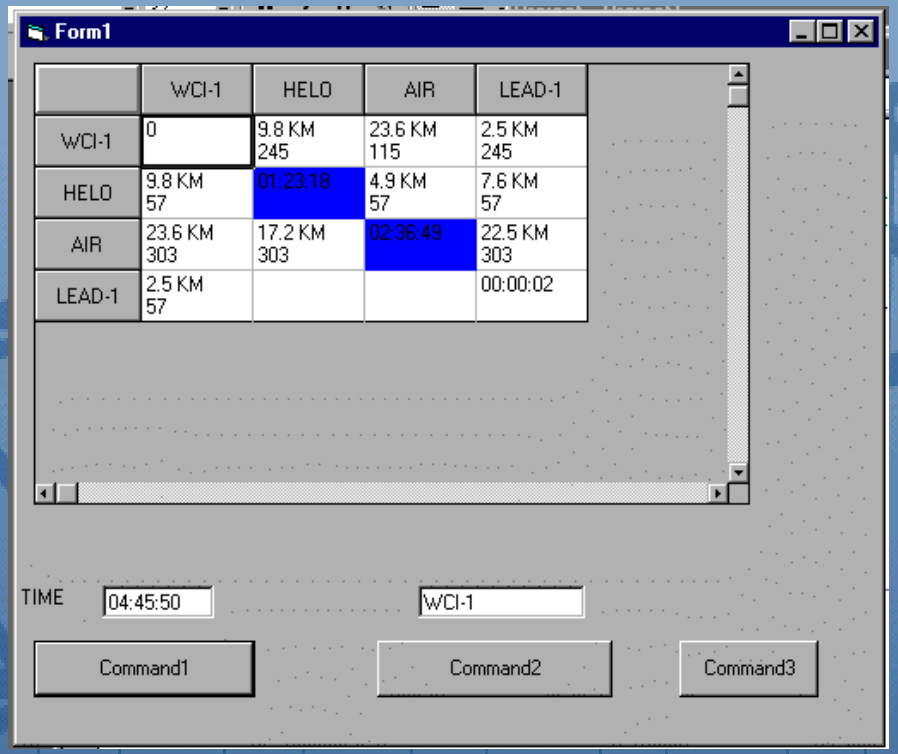


Crazy Ivan flying RF Repeater during Marathon Test



Specialist Software

- During events, the most commonly asked question, after asking where a particular station is, is to ask how far away a station is from another one.



I am writing software that will plug into WinAPRS and provide a spreadsheet of distances and bearings

Frequencies

- ✓ Frequencies for use during The Games are confidential.
- ✓ I do not even know the exact frequencies in use
- ✓ I do know that APRS will not be used on HAM bands.
- ✓ And if you do decide to go looking, please do not interfere with the signals.

Where is KENWOOD Australia?

HOMEBUSH